TE WHARE WĀNANGA O TE ŪPOKO O TE IKA A MĀUI
VICTORIA
UNIVERSITY OF WELLINGTON

School of Information Management

INFO102 Systems Development

Trimester Three 2006

COURSE OUTLINE

Contact Details

	Staff	Room	Email & Telephone	Office Hours
Course Co-ordinator	Simon Park	EA108	simon.park@vuw.ac.nz Ph. 463-6950	Tue through Fri 10am – 3pm
Course Lecturer	David Johnstone	EA218	David.Johnstone@vuw.ac.nz Ph. 463-5877	Tues 12-1pm Thurs 12-1pm
Course Lecturer	Allan Sylvester	EA105	Allan.Sylvester@vuw.ac.nz Ph. 463-8902	Tues 12-1pm Thurs 12-1pm

Class Times and Room Numbers

Credit Value: 18 points
Co-requisite: INFO101
Restrictions: INFO212 (prior to 2005)
Dates: Mon 13 Nov 2006 – Fri 2 Feb 2007
Lectures: MCLT102 (Maclaurin 102),
Tuesdays and Thursdays, 10:00 – 11:50am
Tutorials/Workshops: Tuesdays and Thursdays, 1:00pm – 3:00pm

Course Objectives

a) Introduce students to the stages of the SDLC and their relevance to the creation of an effective information system;
b) Enable students to understand and apply requirements analysis, data modelling and process modelling;
c) Provide students with an understanding of relevant design issues, including user interfaces, physical and logical design, data storage, and implementation; and
d) Enable students to understand and apply methods for translating process design into IS software, using a designated programming platform (VBA - Visual Basic for Applications).

INFO 102 – Lectures, Tutorials & Workshops			2006 / 3
DATE	**TOPIC**	**READINGS**	**Assessment Due**
WEEK: 13 – 17 November			
Tues, 14 Nov	Introduction to IS development Requirements determination **[DJ]**	(DWR) – 1 (DWR) – 4	Arrange email/lab accounts; sign up for tutorials & workshops
	No tutorials		
Thur, 16 Nov	Data modelling (Entity relationship diagrams) **[DJ]**	(DWR) – 7 pp. 211-229	
	TUTORIAL 1: ERD exercises		
WEEK: 20 – 24 November			
Tues, 21 Nov	Data modelling (Normalisation) **[DJ]**	(DWR) – 7 pp. 230-237	Lunch 2 U – ERD (Hand in)
	TUTORIAL 2: Normalisation exercises		
Thur, 23 Nov	**No lecture**		Lunch 2 U – Normalisation (Hand in) For Feedback only
	OPTIONAL TUTORIAL BEFORE TEST 1		
WEEK: 27 November – 1 December			
Tues 28 Nov	**TEST 1**		**TEST 1 (20%) -2 HOURS**
	No tutorials		
Thur, 30 Nov	Process modelling (Use case analysis/Data flow diagrams) **[DJ]**	(DWR) – 8 (DWR) – 5	
	TUTORIAL 3: Use case analysis		
WEEK: 4 – 8 December			
Tues, 5 Dec	Process modelling (Data flow diagrams) System Design **[DJ]**	(DWR) – 6	Lunch 2 U – Use Case (Hand in)
	TUTORIAL 4: Data flow diagrams		
Thur, 7 Dec	Process modelling (Decision trees & tables) **[DJ]**	No reading.	Lunch 2 U – DFD (Hand in)
	TUTORIAL 5: Decision trees & tables		
WEEK: 11 – 15 December			
Tues, 12, Dec	**No lecture**		Lunch 2 U – Decision Trees (Hand in) For Feedback only
	OPTIONAL TUTORIAL BEFORE TEST 2		
Thur, 14 Dec	**TEST 2**		**TEST 2 (20%) -2 HOURS**
	No tutorials		
WEEK: 18 – 22 December			
	No lectures		
WEEKS: 25 December – 5 January	**TRIMESTER BREAK**		
WEEK: 8 – 12 January			
	No lectures **No workshops**		
WEEK: 15 – 19 January			**Programming Assignment (30%**
Tues, 16 Jan	Introduction to Objects Data types	(DWR) PP 495-504	Part 1 sign off
	Workshop 1		
Thur, 18 Jan	Conditional logic Iterative logic and modules		Part 1 sign off Part 2 sign off
	Workshop 2		
WEEK: 22 – 26 January			**Programming Assignment**
Tues, 23 Jan	Program Design Data Design	(DWR) Ch - 11/12	Part 1 sign off Part 2 sign off Part 3 sign off
	Workshop 3		
Thur, 25 Jan	Unit Testing Testing	(DWR) PP 438-447	Part 2 sign off Part 3 sign off Part 4 sign off
	Workshop 4		
WEEK: 29 – 2 February			**Programming Assignment**
Tues, 30 Jan	Systems Architecture Input Design	(DWR) Ch - 9/10	Part 3 sign off Part 4 sign off
	Workshop 5		
Thur, 1 Feb	Access as an example of RAD implementation Development Approaches		Part 4 sign off
	Sign off only		
WEEK: 5 – 9 February			
Tues, 6 Feb	**No lecture** (Waitangi Day) **No workshop**		
Thur, 8 Feb	**Test 3** **No workshop**		**TEST 3 (20%) -1 HOUR**

Delivery Method
Learning materials for this course are delivered in three complementary ways: through (i) lectures, tutorials and workshops; (ii) assigned readings from the prescribed text; and (iii) resources on the (Blackboard) course website. Each method is both important and necessary to achieve the course objectives.

Use of Blackboard

Course Material
Basic course material and announcements will be published on Blackboard on a regular basis.

Announcements
The announcements page for the course will be used to distribute course announcements. You are expected to check the announcements regularly.

Discussion Board
Moderated discussion forums will be provided for assignment work. Staff members will attempt to answer all reasonable questions if peer assistance is not forthcoming. You are strongly encouraged to participate by helping others and asking your own questions. In some cases students may be requested to make an appointment as not all questions can be easily answered using this medium. Discussion material should be on topics that would be valuable to others. Please direct your personal inquiries to the appropriate staff members directly.

Lectures
Lectures will compliment the on-line material and the textbook, but will NOT necessarily cover exactly the same material. Lecture material will not necessarily be published in Blackboard. All lecture material is assessable.

Readings
A. Dennis, B.Wixom & Roth (2006). Systems Analysis & Design. Wiley. 3ed.

There will be set readings from the textbook each week (see the course schedule above). Students are expected to have completed the set readings prior to attending lectures and tutorials for that week.

Additional Learning Resources

www.microsoft.com/msdn
The Microsoft Developer Network contains reference guides and how-to information about the whole range of Microsoft development technologies.

www.sei.cmu.edu
The Carnegie Mellon Software Engineering Institute is one of the leading software engineering and systems development research institutions.

Computerworld (NZ)
This is a weekly publication available at newsstands or by subscription. Computerworld provides up-to-date articles on emerging information technologies and managerial issues in information systems. There will almost always be some material of interest.

Internet
The enormous range of World Wide Web sites can provide valuable information on a wide range of topics.

Library

The university library contains a lot of material that can supplement your assigned readings. You are encouraged to use the catalogues to explore these contrasting views. As with the Internet, you may find material in the library that is considerably different in both style and substance. This contrast can be equally helpful and dangerous, use the textbook and lectures as the basis for "the way we do it around here". You will be assessed for this course only on the techniques we teach.

Assessment Requirements

Course assessment will be based on the following:

		Due Date
Test 1 (Data Modelling)	**20%**	Tuesday, 28 November, 2006, 10am
Test 2 (Process Modelling)	**20%**	Thursday, 14 December, 2006, 10am
Assignment (Programming)	**30%**	In four 7.5% parts (see Schedule)
Tutorials	**10%**	Over first half of course (see Schedule)
Test 3	**20%**	Thursday, 8 February, 2007, 10am
TOTAL	***100%***	

Tests

The tests reflect the two halves of the course. The first two tests provide students the opportunity to demonstrate what they have learned about both the creation of data models from a set of data requirements (Test 1), and the creation of process models from a set of process requirements (Test 2).

Test 3 focuses on systems development topics covered in the second half of the course.

Tutorials

There are five 2-hour tutorials in the first half of the course. **Attendance is compulsory**, and students will be asked to prepare for their tutorials in advance, including the submission of regular exercises as part of the course assessment.

Workshops

Workshops are an essential part of the course, the skills to be demonstrated and requirements for the project work are delivered simultaneously in the workshops.

Examination

The course is internally assessed through class participation, the programming project and section tests. There is no examination in the final exam period for this course.

Penalties

In the event of extraordinary circumstances beyond your control such as bereavement or prolonged illness affecting your ability to meet course requirements, discuss your situation with the Course Coordinator as soon as possible. You must verify your claim, e.g., produce a medical certificate. By doing so you agree to verification of documentation. Extensions are not provided for class preparation materials, such as tutorial exercises – if they are not ready for the intended class, then they have no value, and therefore will not be marked.

***Please note: Certificates from the Student Counselling Service are no longer accepted as documentary evidence to support an extension.**

Scaling

To obtain a fair and consistent distribution of marks relative to assessment difficulty, scaling of marks may be employed on some or all assessments.

Mandatory Course Requirements

To pass this course, students must have:

1. **Correctly enrolled in the course;**
2. **Attended at least four out of the five tutorials;**
3. **Attained an overall pass across all assessed items.**

Tutorials / Workshops

Tutorials provide students with learning opportunities in a smaller class environment. Students are required to attend at least four out of the five tutorials offered in the first half of the course. Each 2-hour tutorial will involve both some discussion around issues relevant to the lecture material, and considerable practice in problem-solving activities. The latter will provide useful feedback on exercises similar to the types of problems encountered in the assessments.

Workshops provide opportunities for learning about a range of programming-related issues based around Visual Basic. Each 2-hour workshop will involve some formal instruction, combined with considerable practice applying programming principles covered in the lectures, with guidance from Workshop Supervisors. More information regarding sign-offs will be available on Blackboard.

Allocations to specific workshops and tutorials will be outlined in the first week of the course.

Communication of Additional Information

All formal notices relating to this course will be posted on the Blackboard website - you are expected to log on and check for announcements on a regular basis, at least two or three times a week. Final grades will be posted on the Information Systems noticeboard located on the ground floor of the Easterfield Building, opposite the lifts (elevators).

The INFO102 website can be accessed at:

http://blackboard.vuw.ac.nz

Important Notes:

- *No extension is possible for tutorial submissions.* All submission dates are absolute. If you are late, you miss: no excuses, no extensions.
- *You must back up your work – From time to time files are lost, computers crash, etc., so it is critical that you get into the habit of backing up important files (on floppy/CD disk or flash drive, for example). Extensions will not be granted due to files lost and not backed up!*
- *Working together – You are encouraged to discuss aspects of assignment work and test preparation with others. However, when it is time to develop your solution,* ***the words and diagrams you use must be ENTIRELY your own****. In this way, we will have your perspective on the topic - not someone else's! Markers have been instructed to check for signs of plagiarism and joint efforts.*

Faculty of Commerce and Administration Offices

Railway West Wing (RWW) - FCA Student and Academic Services Office

The Faculty's Student and Academic Services Office is located on the ground and first floors of the Railway West Wing. The ground floor counter is the first point of contact for general enquiries and FCA forms. Student Administration Advisers are available to discuss course status and give further advice about FCA qualifications. To check for opening hours call the Student and Academic Services Office on (04) 463 5376.

Easterfield (EA) - FCA/Education/Law Kelburn Office

The Kelburn Campus Office for the Faculties of Commerce and Administration, Education and Law is situated in the Easterfield Building - it includes the ground floor reception desk (EA005) and offices 125a to 131 (Level 1). The office is available for the following:

- Duty tutors for student contact and advice.
- Information concerning administrative and academic matters.
- Forms for FCA Student and Academic Services (e.g. application for academic transcripts, requests for degree audit, COP requests).
- Examinations-related information during the examination period.

To check for opening hours call the Student and Academic Services Office on (04) 463 5376.

General University Policies and Statutes

Students should familiarise themselves with the University's policies and statutes, particularly the Assessment Statute, the Personal Courses of Study Statute, the Statute on Student Conduct and any statutes relating to the particular qualifications being studied; see the Victoria University Calendar available in hard copy or under 'About Victoria' on the VUW home page at www.vuw.ac.nz.

Student and Staff Conduct

The Statute on Student Conduct together with the Policy on Staff Conduct ensure that members of the University community are able to work, learn, study and participate in the academic and social aspects of the University's life in an atmosphere of safety and respect. The Statute on Student Conduct contains information on what conduct is prohibited and what steps are to be taken if there is a complaint. For information about complaint procedures under the Statute on Student Conduct, contact the Facilitator and Disputes Advisor or refer to the statute on the VUW policy website at www.vuw.ac.nz/policy/studentconduct. The Policy on Staff Conduct can be found on the VUW website at www.vuw.ac.nz/policy/staffconduct.

Academic Grievances

If you have any academic problems with your course you should talk to the tutor or lecturer concerned; class representatives may be able to help you in this. If you are not satisfied with the result of that meeting, see the Head of School or the relevant Associate Dean; VUWSA Education Coordinators are available to assist in this process. If, after trying the above channels, you are still unsatisfied, formal grievance procedures can be invoked. These are set out in the Academic Grievances Policy which is published on the VUW website at www.vuw.ac.nz/policy/academicgrievances.

Academic Integrity and Plagiarism

Academic integrity is about honesty – put simply it means **no cheating**. All members of the University community are responsible for upholding academic integrity, which means staff and students are expected to behave honestly, fairly and with respect for others at all times.

Plagiarism is a form of cheating which undermines academic integrity. The University defines plagiarism as follows:

The presentation of the work of another person or other persons as if it were one's own, whether intended or not. This includes published or unpublished work, material on the Internet and the work of other student or staff.

It is still plagiarism even if you re-structure the material or present it in your own style or words.

Note: It is, however, perfectly acceptable to include the work of others as long as that is acknowledged by appropriate referencing.

Plagiarism is prohibited at Victoria and is not worth the risk. Any enrolled student found guilty of plagiarism will be subject to disciplinary procedures under the Statute on Student Conduct and may be penalised severely. Consequences of being found guilty of plagiarism can include:

- an oral or written warning
- cancellation of your mark for an assessment or a fail grade for the course
- suspension from the course or the University.

Find out more about plagiarism, and how to avoid it, on the University's website at www.vuw.ac.nz/home/studying/plagiarism.html.

Students with Impairments

The University has a policy of reasonable accommodation of the needs of students with disabilities. The policy aims to give students with disabilities the same opportunity as other students to demonstrate their abilities. If you have a disability, impairment or chronic medical condition (temporary, permanent or recurring) that may impact on your ability to participate, learn and/or achieve in lectures and tutorials or in meeting the course requirements, please contact the Course Coordinator as early in the course as possible. Alternatively you may wish to approach a Student Adviser from Disability Support Services (DSS) to discuss your individual needs and the available options and support on a confidential basis. DSS are located on Level 1, Robert Stout Building, telephone (04) 463 6070, email disability@vuw.ac.nz. The name of your School's Disability Liaison Person is in the relevant prospectus or can be obtained from the School Office or DSS.

Student Support

Staff at Victoria want students to have positive learning experiences at the University. Each Faculty has a designated staff member who can either help you directly if your academic progress is causing you concern, or quickly put you in contact with someone who can. Assistance for specific groups is also available from the Kaiwawao Māori, Manaaki Pihipihinga or Victoria International.

In addition, the Student Services Group (email student-services@vuw.ac.nz) is available to provide a variety of support and services. Find out more at www.vuw.ac.nz/st_services/.

VUWSA employs Education Coordinators who deal with academic problems and provide support, advice and advocacy services, as well as organising class representatives and Faculty delegates. The Education Office (tel. 04 463 6983 or 04 463 6984, email education@vuwsa.org.nz) is located on the ground floor, Student Union Building.

Manaaki Pihipihinga – Maori and Pacific Mentoring Programme (Faculty of Commerce and Administration)

This is a mentoring service for Maori and Pacific students studying at all levels. Weekly one hour sessions are held at the Kelburn and Pipitea Campuses in the Mentoring Rooms, 14 Kelburn Parade, and Room 210 and 211, Level 2, Railway West Wing. Sessions cover drafting and discussing assignments, essay writing, and any questions that may arise from tutorials and/or lectures. A computer suite networked to Cyber Commons is available for student use.

To register with Manaaki Pihipihinga, please contact one of the following:

Puawai Wereta	Fa'afoi Seiuli
Manaaki Pihipihinga Coordinator	Pacific Support Coordinator
Room 210, Level 2	Room 109 B
Railway West Wing	14 Kelburn Parade
Tel. (04) 463 8997	Tel. (04) 463 5842
Email: Puawai.Wereta@vuw.ac.nz	Email: Faafoi.Seiuli@vuw.ac.nz

The Pacific Support Coordinator is also available on the Pipitea Campus, Room 212, Level 2, Railway West Wing, every Thursday, 1-4pm. No appointment is necessary. You can either come in, email or phone with any issue that you need help with. Fa'afoi links Pacific students to the services and support they need while studying at Victoria.